# DSm415/p/f/pf

# Product Information Guide

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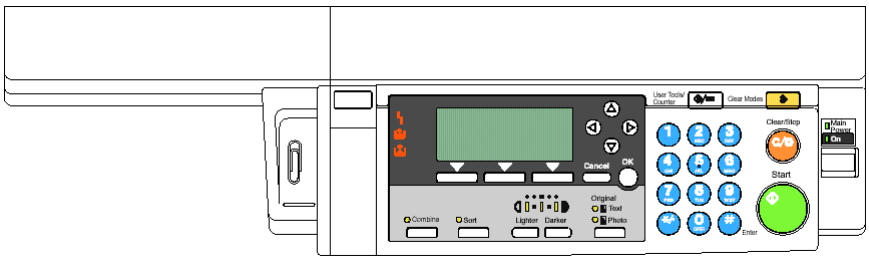
## Product Overview

### DSm415pf with optional 1 tray paper bank

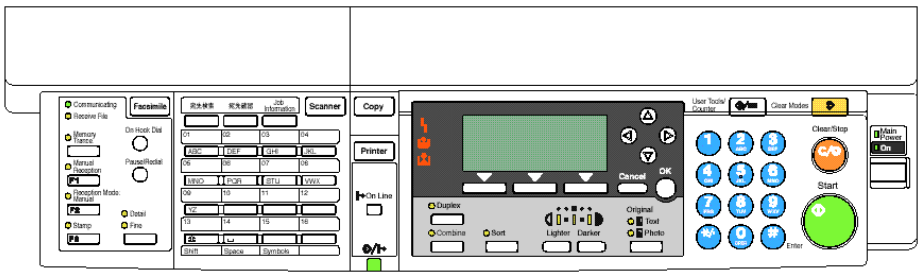
### Operation Panel

Simple designed operation panel; 4-line, 27-digit display for easy operation with 4 direction cursor keys

### Basic Model



### Copier, Fax, Printer and scanner





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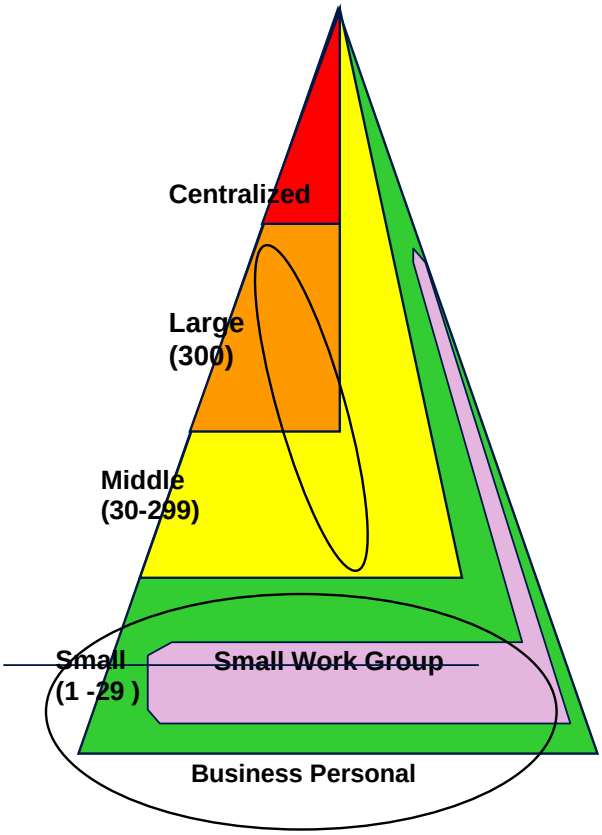
## Target User Classification and Reliability




**Main Target is small workgroup;**

**Average print/copy volume: 2k/month**
**Max print/copy volume: 5k/month**

### Small office users (1-4 people) or business personal machines

Replace the 12 – 15cpm analog copier and 1st generation digital copier by offering the following features:

- Compact size
- 4-line LCD offers easy operation
- Quick warm-up (10 seconds for basic copier recovery time)
- Scan to E-mail feature
- Duplex capability

### Mid to large offices as a work group fax or division printer or scanner

Scanner features are available on printer option (Scanner & Printer option). Replace stand-alone fax machines. Install Printer & Scanner option to acquire print volume. All-in-one (copier, fax, printer and scanner) multi-function product to be used in mid to large offices

### Mid to Large offices as a business personal machine

All-in-one (copier, fax, printer and scanner) multi-function product to be used in large offices



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## Recommended Volumes

| | DSm415 | 1302/1305/1308/ + 1302f/1305f/1308f | Remarks |
|---|---|---|---|
| **Unit life** | Approx. 300K or 5 years which ever comes first | Approx. 300K or 5 years which ever comes first | |
| **ACV** | 2K outputs/ month | 2K outputs/ month | Copy, fax, print total outputs |
| **Max CV** | 5K outputs/ month | 5K outputs/ month | |
| **Duty** | 15K | 15K | |



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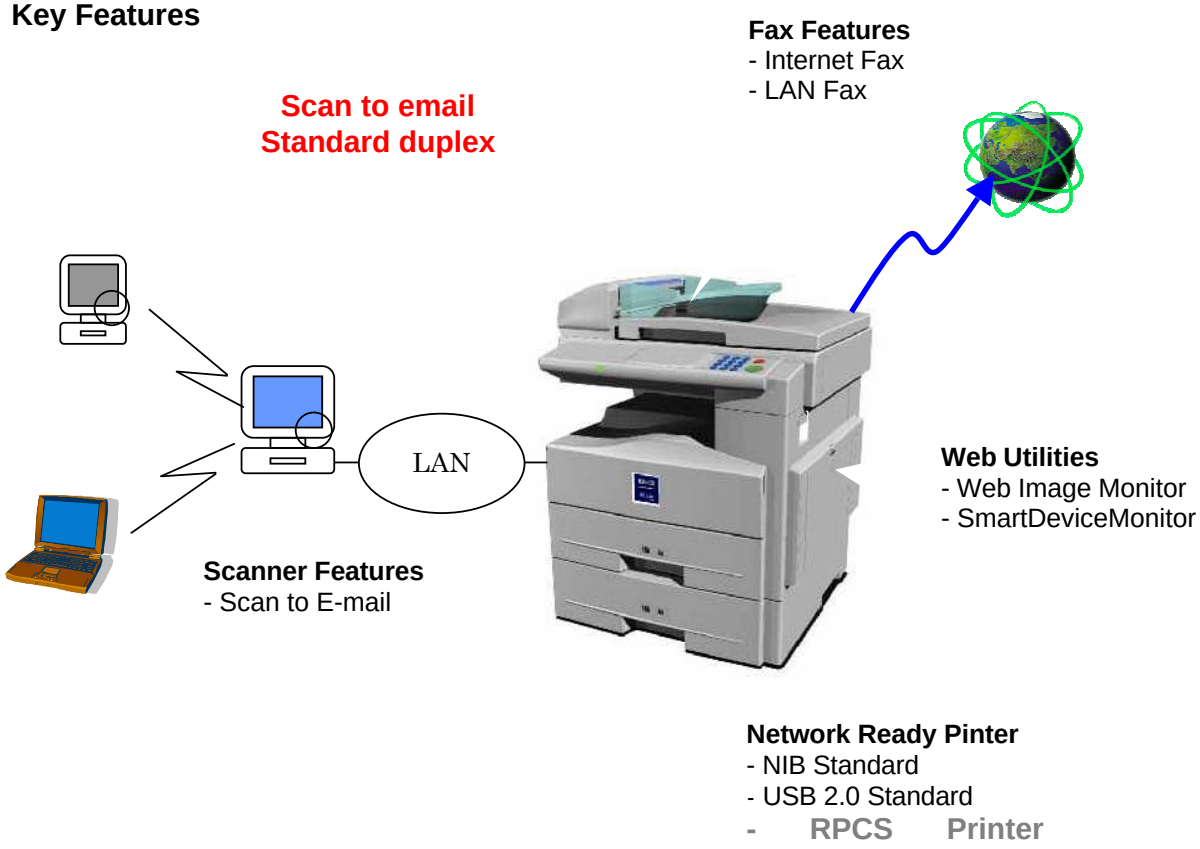
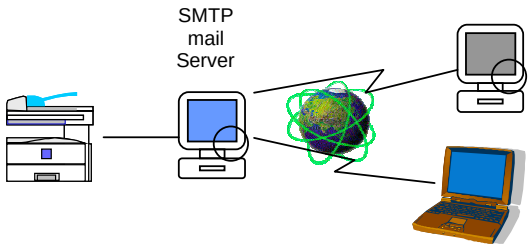
## Key Features




**Scan to E-mail**

Available with the Printer/Scanner option and a great advantage for small office users and work group users. Scanned documents are directly delivered to PCs through the Internet.




**Easy Installation**; Delivery server and designated software for Scan to E-mail are not required. **Easy Operation**; Operation of Scan to E-mail is almost same as that of fax function. **Cost Saving**;Customer can save transmission cost by sending data over Internet.



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### Contents of E-mail

| | |
|---|---|
| Attention | To ( Max 150 addresses) |
| Sender's Name | Key operator's E-mail address or selectable form address book |
| Subject | Customer can select and/or enter "subject" using hard keyboard on operation panel. (Max 64 characters) |
| Body Message | Fixed message is attached to the e-mail. Message language is selectable by user.<br>The following message is attached:<br>-Greeting: "This E-mail was sent from xxxx (host name, machine model name)"<br>-Scan date:<br>-Queries to: Key operator's E-mail address |
| Scanned Data | Attached file (Name of scanned data is named automatically by machine.) |

### Varied Menu of Scan Mode

| **Scan Mode** | |
|---|---|
| Text | For text original |
| OCR* | For OCR purpose |
| Text / Photo | For original containing text and photo |
| Photo | For photo original |

*OCR for scan mode does not mean OCR scanning. OCR mode creates the data that is best match to OCR scanning.

### Resolution:
100dpi / 200dpi / 300dpi / 400dpi / 600dpi

### Return receipt mode
Return receipt is available with Scan to E-mail.

### File Format:
Single Page TIFF/ Multi page TIFF/ PDF



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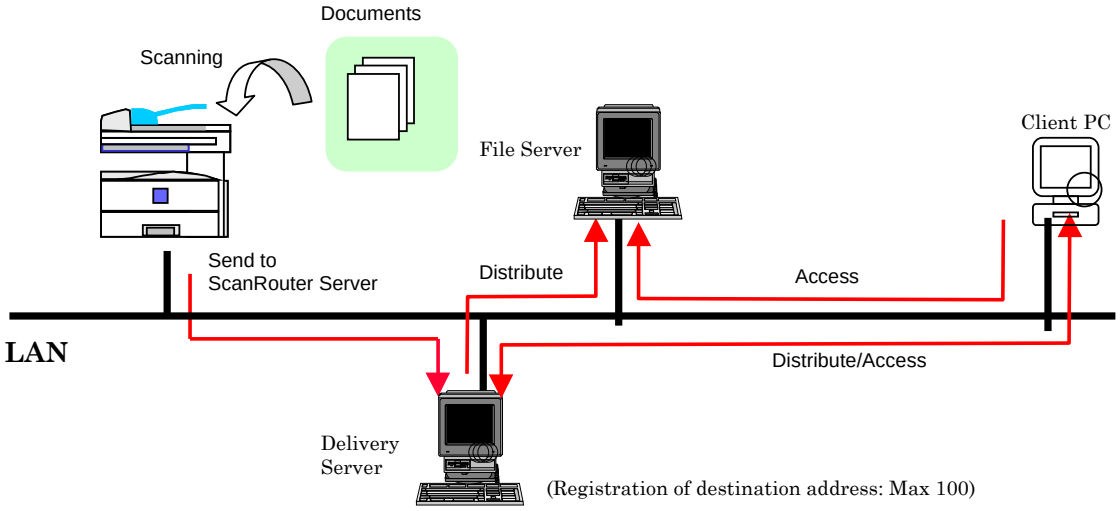
**Network TWAIN**
A network TWAIN driver is available with the Printer/Scanner option.

**Interface:**
Standard: Ethernet 10/100BaseTX
Option: Wireless LAN interface (IEEE802.11b), IEEE1394/IP over

**ScanRouter V2 Lite and DeskTopBinder V2 Lite**
In addition to Scan to E-mail, ScanRouter and DeskTopBinder are standard with the Printer/Scanner option allowing users in the network environment to distribute scanned images to the client PC in the network. With the Network Scanner the new DSm415 becomes a highly productive black & white scanner.

- Client PC can receive documents automatically or manually by using DeskTopBinder.
- Client PC can view and copy documents from the In-Tray by using DeskTopBinder.
- Documents sent are saved to the specified Windows folder(s) via delivery server.




ScanRouter V2 Lite and DeskTopBinder V2 Lite are on the CD-ROM provided with the Printer/Scanner option. ScanRouter V2 Professional and DeskTopBinder V2 Professional are optional.



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## Productivity

### Less warm up time and first copy speed

| | DSm415 (Basic) | DSm415 (MFP*) | 1302/1305/1308/f |
|---|---|---|---|
| Warm-up Time (sec.) | 15 | 30 | 20 |
| Recovery Time (sec.) | 10 | 10 | 20 |
| First Copy Speed (sec.) | 7.5 | 7.5 | 8 |

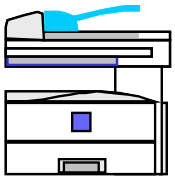
*MFP: with full external options.

**Warm-up time:** The time it takes for the machine to reach operating temperature from the status of main-switch off.

**Recovery time**: The time it takes for the machine to reach operating temperature from Sleep mode (Auto off mode).

### Standard Duplex

Duplex Print capability enhances not only copying features but also printer features.



**Standard Duplex**

Duplex productivity

| ***Product Name*** | **DSm415** |
|---|---|
| ***Duplex Productivity versus simplex (approx)*** | **60%** |



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**Fax Features**

High Speed

- Modem speed: 33.6Kbps
- Transmission speed: 2 sec (with JBIG)

Address Book

- Speed Dial: Max. 150
- Quick Dial: Max. 16
- Group Dial: Max. 10

Users can resister 150 of speed dials whereas the 1302/1305/1308/f had 50 speed dials. Both Fax number and E-mail addresses can be registered in the same dial key which are managed in the common address book and easily registered/changed/deleted through Web. You can assign a maximum of 16 Speed dial numbers to Quick dial. Quick dials can also be shared by Fax and E-mail.

Other Convenient Features

- Serial Broadcasting of Fax and E-mail.
- SAF memory storage (ITU-T No.1 chart): 160 sheets



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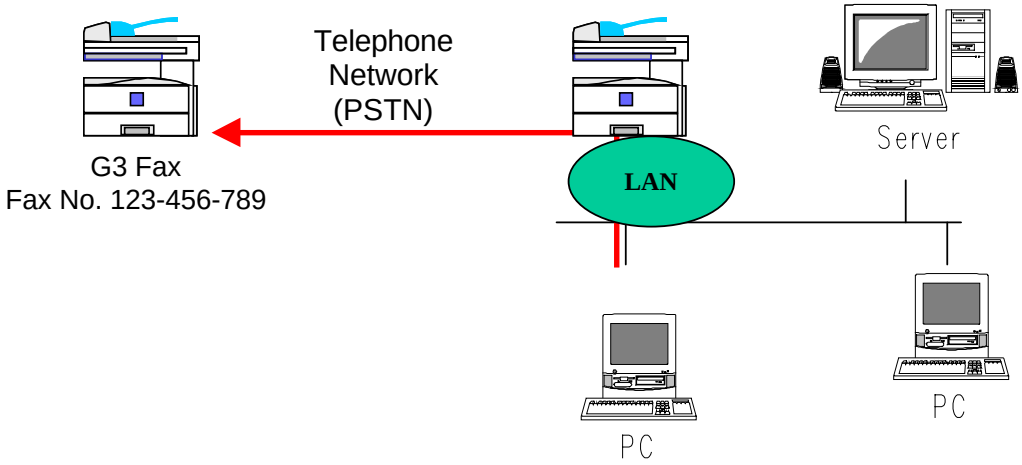
**LAN-Fax**

With LAN Fax you can send documents created on your PC directly to another Fax or MFP. To send a fax from your PC just select Print then select LAN-Fax as the printer and enter the fax number. *LAN Fax is provided wit hthe Printer/Scanner option. Printer/Scanner option is required as well as Fax option.*




LAN-Fax eliminates the need for printing faxes saving on paper and printing. LAN-Fax also eliminates the need to carry a printed document to the fax machine.



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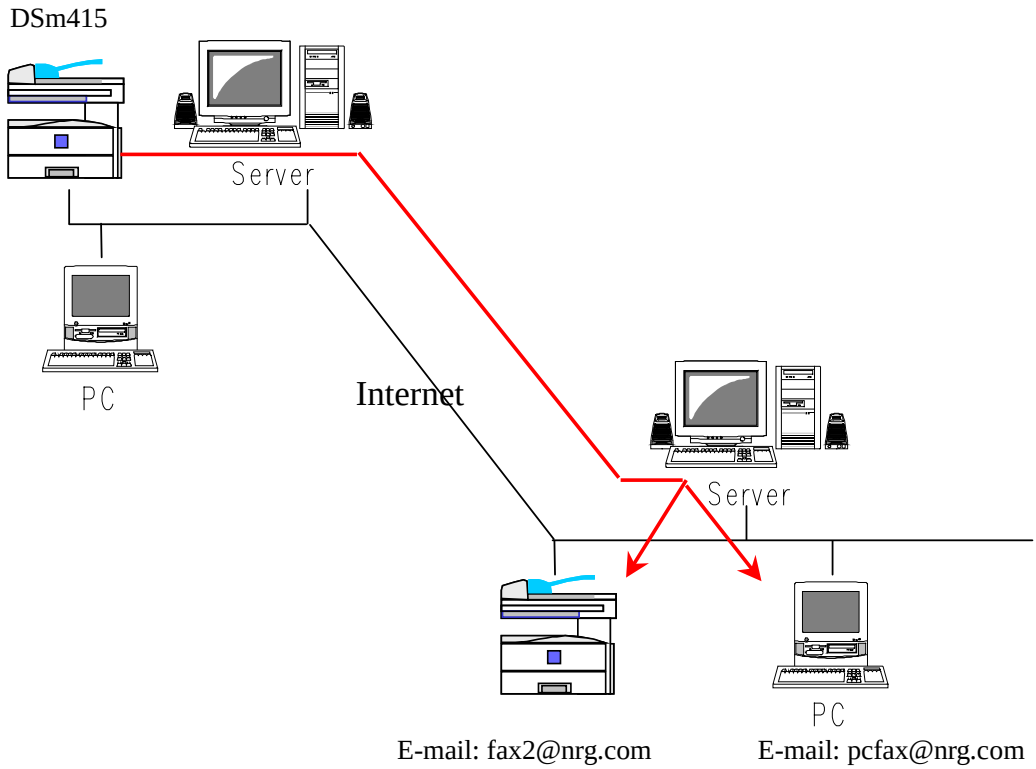
**Internet Fax**

Internet fax converts scanned document images to e-mail format and transmits the data over the Internet. E-mail can be received by another Internet Fax or a PC. Instead of entering the telephone number of the destination you wish to send to you input the relevant E-mail address.

Compliance with “ITU-T T. 37. Full Mode” you are able to receive the delivery confirmation from the receiving fax. The delivery confirmation has the spec of the fax such as paper size, resolution, and compression method. This data will be automatically registered in the address book and will be used next time the fax is sent.




Faxing via the Internet has become a very important communication means in the world of fax enabling users to send hardcopy fax documents over the Internet. Customers are also able to forward a received fax document to their PC.

For Internet Fax, both Printer/Scanner option and fax option are required.



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## Printer Features

The new DSm415 printer option offers high performance GW functionality. It has standard network and USB 2.0 interface providing simple network printing capability. There is also a wide variation of optional interfaces in line with faster MFP's in our range.

- Standard Ethernet interface
- Standard USB 2.0 interface
- Optional wireless LAN interface
- Optional IEEE1394
- Optional IEEE1284
- Optional Bluetooth interface

### 1302/1305/1308/f versus DSm415

| | DSm415 | 1302/1305/1308/f |
|---|---|---|
| Print Speed (A4/LT LEF) | All model: 15ppm (tentative) | 13 ppm |
| Supported Printer language | Standard: RPCS, PCL6, PCL5e<br>Option: Adobe PostScript 3 | Standard: PCL6, PCL5e<br>Option: PostScript 2 Clone |
| Network Interface | Standard:<br>Ethernet (100 Base-TX /10 Base-T) | Option:<br>Ethernet (100 Base-TX /10 Base-T) |
| USB2.0 I/F | Standard | Not available |
| Wireless LAN I/F | Option | Not available |
| IEEE 1394 I/F | Option:<br>2 ports (6 pin)<br>[SCSI print and IP over 1394] | Not available |
| Parallel I/F | Option | Standard |
| Bluetooth | Option | Not available |
| Network protocol | TCP/IP, IPX/SPX, SMB (NetBEUI, NetBIOS over TCPIP)<br>Apple Talk (Auto Switching) | TCP/IP, IPX, Apple Talk<br>(Auto Switching) |
| Controller CPU | TMPR4955B-300 240MHz | Destiny ASIC D8401A 75MHz |
| Memory capacity | 192 MB<br>(Resident 64 MB, additional 128 MB)<br>Additional 128 MB memory is pre-installed to the Printer/Scanner. (128MB memory is standard on CPS model, CFPS model, Printer/Scanner option) | Standard: 16 MB<br>Option: 32, 64, 128 MB (Max. 144 MB) |
| Fonts | PCL: 35 intelli fonts, 10 true type fonts, 1 bitmap<br>PS3: 136 Adobe Type 1 fonts | PCL: 35 intellifonts, 10 true type fonts,<br>PS2: 80 PS fonts |
| HDD | Not available | Not available |



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**Versatile Network Connectivity**

The new DSm415 is equipped with standard Ethernet (100 Base-TX/10 Base-T) and USB 2.0 interface providing easy connection in a customer's network environment. In addition the following interfaces are available as options:

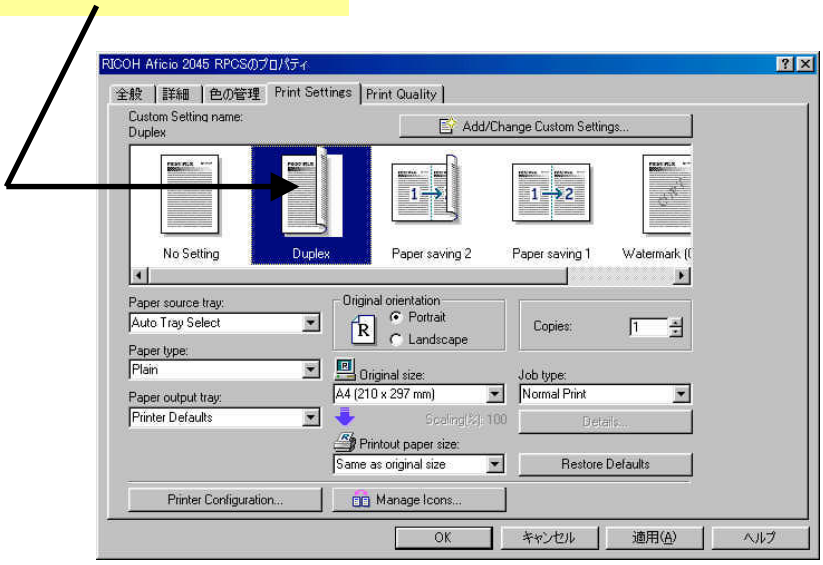
- Wireless LAN (IEEE802.11b)
- IEEE1394 (SCSI and IP over 1394)
- Bluetooth
- Parallel

*Note: Wireless LAN and the standard Ethernet interface cannot be used at the same time.*

**RPCS driver**

Simple and straightforward to use, RPCS drivers allow users to select sometimes complicated settings easily.

Customer clicks one of the icons in this area. Only with this operation, customer can set any kinds of print settings.



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**Web Image Monitor**

Web Image Monitor is a web-based utility that enables users to monitor machine status, job log, change network settings and manage address book from PC in the network. **Note:** Web Image Monitor is available with Printer/Scanner option.

### System requirements

For Windows environment: Microsoft Internet Explorer Version: 5.5 or later
Netscape Navigator: 6.2 or later

For Macintosh environment: Netscape 6.2 or later

### Functions of Administrator Mode/User Mode

Functions differ between Administrator mode and User mode.

| | | | | Administrator Mode | User Mode |
|---|---|---|---|---|---|
| Status | Input Tray | | | Yes | Yes |
| | Output Tray | | | Yes | Yes |
| | Toner | | | Yes | Yes |
| | Function | | | Yes | Yes |
| | System | | | Yes | Yes |
| | Printer Language | | | Yes | Yes |
| Job | Printer | Job History | | Yes | Yes |
| | | Error Log | | Yes | Yes |
| | Fax History | Transmission | | Yes | Yes |
| | | Reception | | Yes | Yes |
| | | LAN-Fax | | Yes | Yes |
| Address Book | | | | Yes | **No** |
| Configuration | Paper | | | Yes | **No** |
| | System | | | Yes | **No** |
| | Fax | General | | Yes | Yes |
| | | Key Operator Tools | | Yes | **No** |
| | | Parameter Settings | | Yes | **No** |
| | Printer | | | Yes | Yes |
| | E-mail | | | Yes | Yes |
| | Interface | | | Yes | Yes |
| | Network | Protocol | Protocol | Yes | Yes |
| | | | TCP/IP | Yes | Yes |
| | | | NetWare | Yes | Yes |
| | | | AppleTalk | Yes | Yes |
| | | | SMB | Yes | Yes |
| | | | SNMP | Yes | **No** |
| | | System Log | | Yes | Yes |
| | Web page | | | Yes | Yes |
| | Security | Password | | Yes | **No** |
| | | Access Control | | Yes | **No** |
| | | IPP Authentication | | Yes | **No** |



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**SmartDeviceMonitor**

Equipped with SmartNetMonitor users are able to monitor the status of copier, fax and scanner. (1302/1305/1308/f could monitor only printer status). The following features are available by using SmartNetMonitor;

SmartDeviceMonitor for Admin

- Monitoring network device status.
- Access control by user code management
- Counting by user code management
- (The data can be exported into CSV files for simple account management.)
- Checking device information
- (Tray, toner, option, system, printer language, network I/F, etc)
- Import and export the address book in CSV file format. With this function, user can;
- Easily register the large number of address in the S-C2 address book at one time
- Backup the data, or transfer the data to other mail system.

SmartDeviceMonitor for Client

- Monitoring the device status
- Job end notification
- Recovery printing
- Checking device information

Full details of SmartNetMonitor are provided in SmartNetMonitor Product Information Guide

**Function availability list for each application**

| Function | | Web Image Monitor | SmartDevice Monitor | Operation panel |
|---|---|---|---|---|
| Address book (Scan to E-mail) | Add | YES | Yes | Yes |
| | Change | YES | Yes | Yes |
| | Delete | YES | Yes | Yes |
| | Print | NO | Yes | Yes |
| Machine status | View | YES | Yes | Yes |
| Job log | View | YES | Yes | Yes |
| System set up | | YES* | NO | Yes |
| Network setting | View | YES | Yes | Yes |
| | Change | YES | Yes | Yes |
| User Code Management | | YES | Yes | Yes |

*System settings, you can do from the Web Image Monitor are limited



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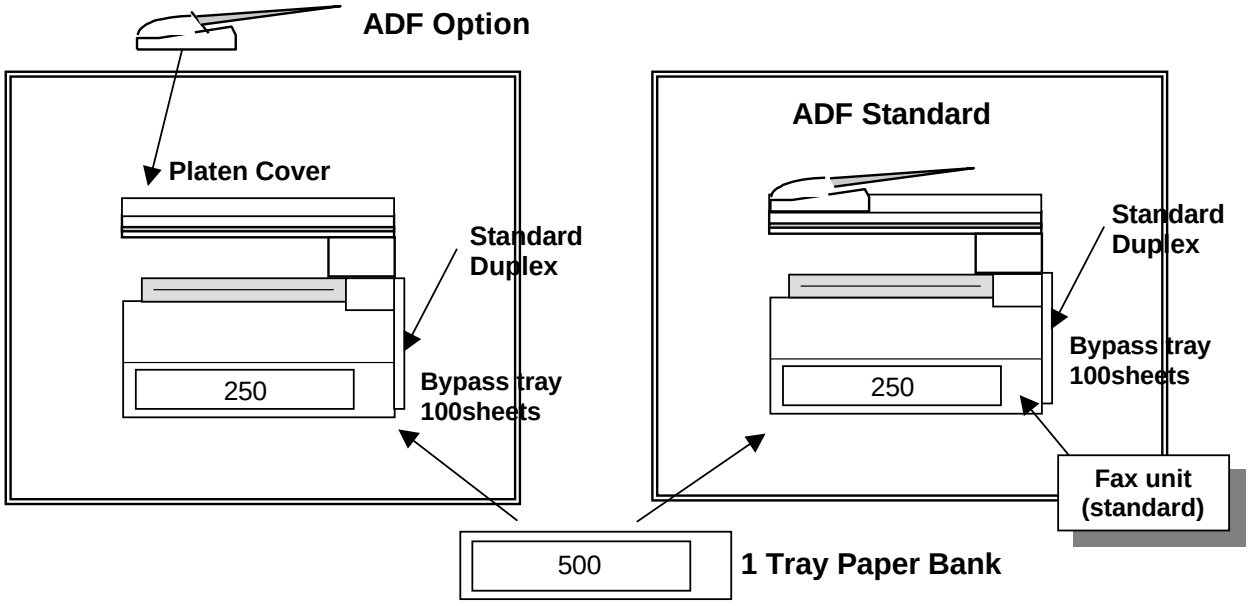
## Configuration and options

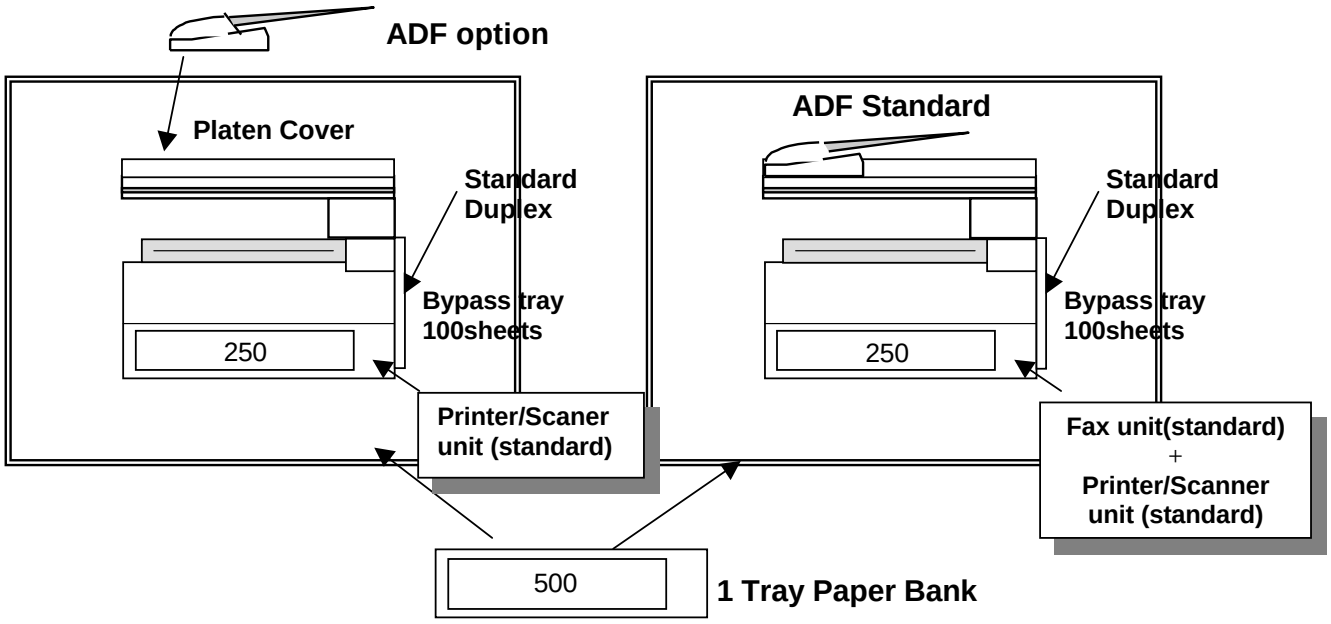
### DSm415

### DSm415f




### DSm415p

### DSm415pf



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## Internal Options

### Printer/Scanner:

- Printer/Scanner option
- PostScript3
- IEEE 802.11b (Wireless LAN I/F)
- IEEE 1284 I/F
- IEEE 1394 I/F
- Bluetooth

## Option/Supply Interchangeability

### New Options:

Can be installed : O
Can not be installed : NG

| Item | DSm415 | 1302/5/8/f |
|---|---|---|
| ADF | O | NG |
| Printer/Scanner option | O | NG |

### Option compatibility

| | |
|---|---|
| Paper Bank (500 sheets x 1) | Used in common with 1302/1305/1308/f |
| PostScript3 | Used in common with DSm615/618/618d |
| IEEE 802.11b (Wireless LAN)*1 | Used in common with DSm615/618/618d |
| IEEE1284 *2 | Used in common with DSm615/618/618d |
| IEEE1394 *1 | Used in common with 90/105 |
| Bluetooth *1 | Used in common with DSc332/338 |

*1 Only one of these option can be installed to the option slot in the controller board. Wireless LAN and IP over 1394 (IEEE 1394) features cannot be used with the standard Ethernet interface at the same time.
*2 Need to take out the USB2.0 interface to install IEEE1284.



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**Option correlation:**

**DSm415**

○ must be installed together ● cannot be installed together

| | ADF | Paper Bank (500 sheets x 1) |
|---|---|---|
| ***ADF*** | ● | |
| ***Paper Bank (500 sheets x 1)*** | | ● |

**Memory configuration**

For DSm415 basic copier memory is standard. There is no optional memory.

**Resident: 16MB**

**DSm415f (Fax model)**

64MB memory is necessary for Fax model and is standard with Fax option. There is no need to add additional memory.

**Resident: 64MB**

**DSmpf (Printer, scanner, and fax)**

128MB additional memory is necessary for Printer/Scanner feature and is standard in Printer/Scanner model/option. There is no other optional memory.

**Resident: 64MB**
**Memory DIMM for Printer/Scanner: 128MB**
**Total: 192MB**



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## Main Unit Specification

(SEF: short-edge feed, LEF: long-edge feed)

### Engine

| | DSm415 | Remarks |
|---|---|---|
| **1. Technology:** | | |
| a) Reading element | Flatbed with CCD array image-sensor | |
| b) Printing processing | Laser beam scanning/marking & electro-photographic printing.<br>Dry, dual component toner development | |
| **2. Dimensions (WxDxH):** | | |
| a) Standard configuration | W468 x D450 x H371 mm<br>(18.43" x 17.72"x 14.61") | |
| b) With ADF | Height: Approx. 466 mm | |
| **3. Weight:** | DSm415 :20kg or less (44.09 lbs.)<br>With ADF: 22kg or less (48.50 lbs.)<br>DSm415p : 23kg or less (50.71 lbs)<br>DSm415f : 25kg or less (56.16 lbs)<br>DSm415pf : 25kg or less (56.16 lbs) | |
| **4. Input Capacity:** | | |
| a) Standard | 250 sheets tray x 1<br>100 sheets multi bypass tray* | *Bypass tray and duplex unit do not work together. |
| b) Options | Paper Bank: 500 sheets x 1 | Max total capacity:<br>850 sheets |
| **5. Output Capacity:** | 250 sheets (internal tray) | |
| **6. Paper size / weight:** | | |
| a) Size: | Standard Tray:<br>A5 (LEF), A4 (SEF),<br>5 1/2" x 8 1/2" (LEF), 8 1/2" x 11"(SEF) | |
| | Bypass Tray:<br>A6 (SEF) – A4 (SEF),<br>5 1/2"x 8 1/2" - 8 1/2"x 14"(SEF)<br>Irregular size: 90 - 216 x 139 - 600 mm<br>3.54" - 8.5" x 5.48" – 23.62" | |
| | Duplex:<br>A4 (SEF)<br>8 1/2" x 11"(SEF), 8 1/2"x 14"(SEF) | |
| b) Weight: | Standard Tray: 60 to 90 g/m$^2$ (16 - 24 lbs.) | |
| | Bypass Tray: 60 to 157 g/m$^2$ (16 - 42 lbs.) | |
| | Duplex Unit: 60 to 90 g/m$^2$ (16 - 24 lbs.) | |
| **7. Rating power spec:** | 100V model: 120V, 60 Hz | |
| | 200V model: 220-240V, 50/60Hz | |
| **8. Power consumption:** | Full system: Less than 1KW | |



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## General Copier Features

| | DSm415 | Remarks |
|---|---|---|
| **Original Size**<br>**1st copy speed** | Max A4 / 8 1/2" x 11" (8 1/2"x 14" with ADF)<br>7.5 seconds or less | When polygon mirror motor is spinning.<br>A4/ 8 1/2" x 11" (SEF) from the standard tray, no R/E |
| **Multi copy speed** | 15cpm (One to one copying)<br>15cpm (Continuous copying)<br>9cpm (Duplex, Continuous copying) | A4 / 8 1/2" x 11" (SEF), no R/E |
| **Multiple copy** | Up to 99 | |
| **Resolution** | 600 dpi | |
| **Gray Scale (per dot)** | Scanning: 256 levels, Marking: Binary | |
| **Recovery time** | Basic model<br>15 seconds or less (from main switch off)<br>10 seconds or less (from auto off mode)<br>CF, CPS, CFPS model<br>30 seconds or less (from main switch off)<br>10 seconds or less (from auto off mode) | 20 degrees C |
| **Memory Capacity** | Basic model: 16MB<br>CF model: 64MB<br>CPS, CFPS model: 192 MB | |
| **Enlargement** | US model: 129, 155 %<br>European/Asian/Pacific model: 141, 200% | 2E |
| **Reduction** | US model: 93, 78, 65%<br>European/Asian/Pacific model: 93, 71, 50% | 3R |
| **Zoom** | 50% to 200% in 1% step | |
| **Image density adjustment** | Manual or automatic | |
| **Interrupt copy** | Not available | |
| **Electronic counter** | Mechanical counter and Electric counter | |
| **User code** | Standard (50 codes, eight digits) | |
| **Display language** | 220-240V<br>English | |



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## Enhanced Features

| | DSm415 |
|---|---|
| **APS / AMS** | No |
| **Auto tray switch** | Option (Available with optional paper bank) |
| **Directional magnification** | No |
| **Directional size magnification** | No |
| **Photo mode** | Standard (photo mode) |
| **Auto start** | Standard |
| **User program** | No |
| **Duplex** | Standard *2 sided scanning is not available because ARDF is not available |
| **Electronic sort** | Standard *Rotate sorting is not available. |
| **Scan once copy many** | Standard |
| **Image rotation** | No |
| **Series copy** | No |
| **Combine copy** | Standard (2 in 1 simplex/duplex) |



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## Fax Features

### General

| | DSm415 | Remarks |
|---|---|---|
| **Circuit** | PSTN, PBX | |
| **Compatibility** | ITU-T (CCITT) G3 | |
| **Resolution** | 200x100dpi, 200x200 dpi, 200x400dpi<br>8 x 3.85 l/mm,, 8x7.7 l/mm, 8x15.4 l/mm | |
| **Compression method** | MH, MR, MMR,JBIG | |
| **Scanning speed** | Less than 2 seconds (200x200, A4/ 8 1/2"x11" SEF) | |
| **Number of Pages Scanned** | TBA | |
| **Modem speed** | Standard with Automatic fallback:<br>336000, 31200, 28800, 24000, 26400, 21600, 19200, 16800, 14400, 12000, 9600, 7200, 4800, 2400 bps | |
| **Transmission speed** | G3: Approx.3 seconds (200x100dpi, ITUT #1 chart, TTI off, memory transmission)<br>G3: Approx.2 seconds (200/100dpi, with JBIG, TTI off, memory transmission) | |
| **SAF memory** | Standard: 2 MB<br>No SAF memory option available. | |
| **Page memory** | 3 MB<br>No page memory option available. | |
| **Memory backup** | One hour | |
| **Super smoothing** | Standard (Binary) | |
| **Stamp** | No | |
| **TTI/RTI** | Standard | |
| **CSI** | Standard | |
| **Quick dial** | Standard (16 numbers) | Quick dial can be assigned 16 out of 150 Speed dial. |
| **Speed dial** | Standard (150 numbers) | |
| **Group dial** | Standard (10 groups, Max. 100 numbers per group) | |
| **Keystroke program** | No | |
| **Redial** | Standard | |
| **AI short protocol** | Standard | |
| **Direct fax number entry** | Standard | |
| **Dual access** | Standard | |
| **User Code** | Standard (8 digits, 50 Personal Codes) | |
| **Label insertion** | Standard | |
| **Auto document** | No | |
| **Telephone directory** | Standard | |
| **Page count** | Standard | |
| **Auto reduction** | No | |
| **Wild cards** | Standard | |
| **Summer time (day light saving time)** | Standard | |
| **ID code programming** | Standard (4 digits, only for Memory Lock) | |
| **Programming by OMR** | No | |
| **User function key** | Standard (3 keys) | |
| **Night timer** | No | |



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| | | |
|---|---|---|
| **Energy saver** | Standard | |
| **LCD prompt** | Standard | |
| **Remaining memory indication** | Standard | |
| **Time indicator /clock adjustment** | No / Standard | |
| **User parameter setting** | Standard | |
| **User data transfer** | Standard | |
| **Memory file transfer** | Standard | |
| **Internet FAX** | Option (T.37, Full mode) | Printer/ Scanner option required |
| **LAN FAX** | Option | Printer/ Scanner option required |
| **Local Storage** | No | |

## Transmission features

| | DSm415 | Remarks |
|---|---|---|
| **Immediate transmission** | Standard | |
| **Memory transmission** | Standard | Max. files: 200<br>Max. attention: 300 |
| **Serial broadcasting (later)** | Standard (Max. 300 numbers) | |
| **Send later** | Standard | |
| **Error correction mode** | Standard | |
| **Page retransmission** | Standard | |
| **Economy transmission** | No | |
| **Forwarding** | Standard | |
| **Batch transmission** | Standard | |
| **Parallel memory transmission** | Standard (Automatically selected.) | |
| **Image rotation** | No | |
| **Book fax** | No | Book fax = split two facing pages of the book original into two separate pages and send each of the separate page. |
| **Transmission deadline** | No | |
| **Closed network (transmission)** | No | |
| **Confidential transmission/with ID** | No | |
| **Transfer request** | No | |
| **Transfer transmission** | No | |
| **Multi-step Transfer** | No | |
| **Polling transmission** | No | |
| **Double sided transmission** | No | |
| **Transmission reserve** | No | |
| **Well log transmission** | Standard (Max. 600mm) | |



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## Reception features

| | DSm415 |
|---|---|
| **Automatic reception** | Standard |
| **Manual reception** | Standard |
| **Substitute reception** | Yes |
| **Authorized reception** | Standard |
| **Multicopy** | No |
| **Reverse order printing** | No |
| **Memory lock** | Yes |
| **Confidential reception** | No |
| **Special reception numbers** | Yes |
| **Closed network** | No |
| **Polling reception** | No |
| **Poll later** | No |
| **Polling from memory** | No |
| **Multi-polling reception** | No |
| **Continuous polling** | No |
| **Reception time printing** | Standard |
| **Center mark** | Standard |
| **Checkered mark** | Standard |
| **2 in 1 (two in one)** | Standard |
| **Image rotation** | No |
| **Image reduction** | No |
| **Economy printing mode** | No |
| **Duplex reception** | No |

## Telephone features

| | DSm415 |
|---|---|
| **Telephone connection** | Standard |
| **Monitor speaker** | Standard |
| **Automatic voice message** | No |
| **Voice request** | No |
| **On hook dial** | Standard |
| **Tone transmission** | Standard |
| **Pause** | Standard |
| **Pulse/tone selection** | Standard (Manual) |
| **Chain dialing** | Standard |
| **Reception mode selection** | Standard |
| **Automatic fax/phone change** | Standard |
| **Reception mode switch over (remote)** | No |
| **Answering machine interface** | No |
| **Reception mode switching timer** | No |
| **Auto answer delay time** | No |
| **Busy tone detection** | Standard |
| **Silent ringing detection (1300hz/16hz)** | No |



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## LAN-Fax Basic Specifications

| | |
|---|---|
| **Requirement** | Fax and Printer/Scanner |
| **Paper Size** | A4 |
| **Resolution** | Detail (200 x 200 dpi) **default*<br>Standard (200 x 100 dpi) |
| **Gray Scale** | Off<br>On normal **default*<br>On lighter |
| **Number of Address** | 300 |
| **OS** | Windows 95/98/ Me/XP, Windows NT4.0/2000/2003 |
| **LAN-Fax Editor support language** | 1.English, 2.German, 3.French, 4.Italian, 5.Spanish, 6.Dutch, 7.Swedish, 8.Norwegian,<br>9.Danish, 10.Finnish, 11.Hungarian, 12.Czech, 13.Polish, 14.Portuguese, 15.Russian<br>16.Simplified Chinese,<br>Condition: OS need to have the same language |
| **Interface** | Ethernet (100BASE-TX/10BASE-T)<br>Parallel Port IEEE1284<br>Wireless LAN Interface (IEEE802.11b)<br>IEEE1394 |
| **Protocol** | G3 |
| **TTI** | TTI |
| **Compression Method** | MMR |
| **Send Later** | Yes |
| **Image Rotation** | Yes |
| **Internet Fax** | Yes |
| **Local Storage** | No |
| **Destination** | Max. 300 |
| **MIB** | Yes |
| **Transfer Request** | No |

## Internet Fax (T.37 Full mode) Basic Specification

| | |
|---|---|
| **Requirement** | Fax and Printer/Scanner |
| **Interface** | Ethernet (100BASE-TX/10BASE-T)<br>Parallel Port IEEE1284<br>Wireless LAN Interface (IEEE802.11b)<br>IEEE1394 |
| **Paper Size** | Max A4 / 8 1/2” x 11” using the exposure glass<br>Max 8 1/2”x 14” with ADF |
| **Resolution** | Simple Mode: 200x100dpi, 200x200 dpi<br>Full Mode: 200x100dpi, 200x200dpi, 200x400dpi |
| **Compression method** | Simple Mode: MH<br>Full Mode: MH, MR, MMR |
| **Scan Mode** | Text: for text original<br>Photo: for photo original |
| **Number of Address Storage** | Max. 150 (Share address book capacity with e-mail address) |
| **Attention** | Max. 300 |
| **Destination combination** | Internet fax and G3 fax |



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## General Features of Printer Controller

| | | | |
|---|---|---|---|
| CPU | | | TMPR4955B-300 240MHz |
| RAM | Std. | | 192MB (Resident 64MB + 128MB additional memory)<br>**Note:**<br>128MB additional memory is pre-installed to Printer/Scanner (CPS model, CFPS model, Printer/Scanner option) |
| Hard Disk Drive | Std. | | Not available |
| PDL | Std. | | RPCS, PCL6, PCL5e |
| | Option | | Adobe PostScript3 |
| Continuous Print Speed | Max. | | 15ppm LT: SEF 600dpi |
| Fonts | Std. | | PCL: 46 fonts (TrueType: 10 fonts, Intellifont: 35 fonts, 1 bitmap font) |
| | Option | | PS3: 136 Adobe Type 1 fonts |
| Connectivity | Host Interface | Std. | Ethernet (RJ-45: 100BASE-TX/10BASE-T)<br>USB 2.0 |
| | | Option | Wireless LAN Interface (IEEE802.11b)<br>IEEE1394 x 2 port (6 pin)<br>Parallel Port IEEE1284<br>Bluetooth |
| | Network Protocol | | TCP/IP, IPX/SPX, SMB (NetBEUI, NetBIOS over TCPIP) *1<br>AppleTalk (Auto Switching) |
| | MIB support | Standard MIB | MIB-II(RFC1213), HostResource(RFC1514), PrinterMib(RFC1759) |
| | | Private MIB | Ricoh Original |
| | Network/Operating Systems | | Windows 9x/Me, NT4.0, 2000, XP, Server 2003 |
| | | | Netware 3.12, 3.2, 4.1, 4.11, 5.0, 5.1, 6 |
| | | | Unix:<br>Sun Solaris 2.6 / 7 / 8 / 9<br>HP-UX 10.X / 11x<br>SCO OpenServer 5.0.6<br>RedHat Linux6.x / 7.x<br>IBM AIX V4.3/5L V5.1 |
| | | | Mac OS 8.6 - 9.2.X (OS X Classic)<br>Mac OS X Native (V. 10.1 or Later) *2 |

(Note)
*1: SmartDeviceMonitor for client is required for NetBeui.
*2: Mac OS X v10.0X is not supported.



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| | | | |
|---|---|---|---|
| Print Resolution | Engine | | 600x600 (dpi) |
| | Controller | PCL5e | 300x300 (dpi)/ 600x600 (dpi) |
| | | PCL6 | 600x600 (dpi) |
| | | RPCS | 600x600 (dpi) |
| | | PS3 (Option) | 300x300 (dpi)/ 600x600 (dpi) |
| | Drivers | PCL5e | 300x300 (dpi)/ 600x600 (dpi) |
| | | PCL6 | 600x600 (dpi) |
| | | RPCS | 300x300 (dpi)/ 600x600 (dpi) |
| | | PS3 (Option) | 600x600 (dpi) |
| Language | Operation Panel | | 1.English |
| | Drivers | PCL5e/PCL6 | 1.English |
| | | RPCS | 1.English |
| | | PS3 (Option) | 1.English |

## Controller Options

| Option Items | | Type | Comments |
|---|---|---|---|
| PostScript3 | Installed into PS3 DIMM slot | Type B | **Compatibility: DSm615/618/618d** |
| Wireless LAN I/F (IEEE802.11b) | Installed into PCI slot | Type D | **Compatibility: DSm615/618/618d** |
| Parallel Port IEEE1284 | Installed into PCI slot* | Type A | **Compatibility: DSm615/618/618d** |
| IEEE 1394 I/F | Installed into PCI slot | Type B | **Compatibility: 90/105** |
| Bluetooth | Installed into PCI slot | Type 2238 | **Compatibility: DSc332/338** |

Note *: IEEE1284 Micro Centronics 36 interface is used.
Converter (either adapter or cable) is required to connect to Centronics connector. Adapter is available as service parts (P/N: G5885140).



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## Supported Environments

### Windows OS

| OS | Type | PCL5e | PCL6 | RPCS | PostScript3 |
|---|---|---|---|---|---|
| Windows 9x/Me | - | Y | Y | Y | Y |
| Windows NT | WorkStation 4.0 | Y *1 | Y *1 | Y *1 | Y *2 |
| | Server 4.0 | Y *1 | Y *1 | Y *1 | Y *2 |
| | Server 4.0 TSE (*6) | Y *2 | Y *2 | Y *2 | Y *2 |
| | Server 4.0 Enterprise Edition | N | N | N | N |
| Windows 2000 | Professional | Y | Y | Y | Y *3 |
| | Server (*6) | Y | Y | Y | Y *3 |
| | Advanced Server (*6) | Y *4 | Y *4 | Y *4 | Y *3*4 |
| | Datacenter Server | N | N | N | N |
| Windows XP | Professional | Y | Y | Y *5 | Y *3 |
| | Home Edition | Y | Y | Y*5 | Y*3 |
| Windows Server 2003 | Standard Edition | Y | Y | Y*7 | Y |
| | Enterprise Edition | Y *4 | Y *4 | Y*4*7 | Y *3*4 |
| | Datacenter Edition | N | N | N | N |
| | Web Edition | N | N | N | N |

[Remarks]
*1…Service Pack 4 or later is required.
*2…Service Pack 6 or later is required.
*3…Adobe does not release PS driver for Windows 2000 and XP. Only MS-PostScript driver is available and PPD file for MS-PS is included in the Driver CD.
*4…Cluster Server configuration is not supported.
*5…RPCS driver does not support “Fast User Switching” functions of Windows XP.
*6…See “Point & Print” and “Terminal Service & Citrix MetaFrame”
*7…On System environment with Windows Server 2003, the following printer driver functions have limitations.

| RPCS Driver Function | Administrator | User |
|---|---|---|
| Custom Settings Icon | A | B |
| Add/Change Custom Settings | A | B |
| Manage Icons | A | B |
| Printer Configuration | A | B |
| Job Type | N/A | N/A |
| Overlay | N/A | N/A |
| Watermarks | A | B |
| Save/Restore Settings | N/A | N/A |
| User Settings | A | B |
| Custom Paper Size | A | B |
| Chaptering | N/A | N/A |

A : Authorized to changing and registering
B : Access to use only



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**Mac OS**

| | PostScript3 | Printer Utility for MAC |
|---|---|---|
| Mac OS 8.6 - 9.2.X (OS X Classic) | Yes | Yes |
| Mac OS X Native (v. 10.1 or Later) *1 | Yes | Yes*2 |

*1…Mac OS X v.10.0.x is not supported.
*2…Mac OS X v.10.2.0 is not supported

### UNIX Filter

| | | | |
|---|---|---|---|
| Supported Platforms | (OS) | Unix Platform | Remarks |
| | Sun Solaris | 2.6 / 7 / 8 / 9 | |
| | HP-UX | 10.x / 11x | |
| | RedHat Linux | 6.X / 7.x / 8.x | Device option feature is not supported in 6.x. |
| | SCO OpenServer | 5.0.6 | |
| | IBM AIX | V4.3 / 5L V5.1 | |
| | Data Stream | PostScript, PCL (Device option feature not supported), ASCII Text | |
| | Localization | English only | |

**Note:** Device option feature enables use of optional equipment such as finisher and paper trays.

### Novell Netware

| | | |
|---|---|---|
| Netware Server | Supported Version | Netware 3.12, 3.2, 4.1, 4.11, 5.0, 5.1, 6 |
| | Client OS | Windows 95 /98 /Me, NT4.0 / 2000, XP (Professional) |
| NDPS Gateway | Supported Version | Netware 5.0(SP5 or Later), 5.1, 6 |
| | Localization | English only |



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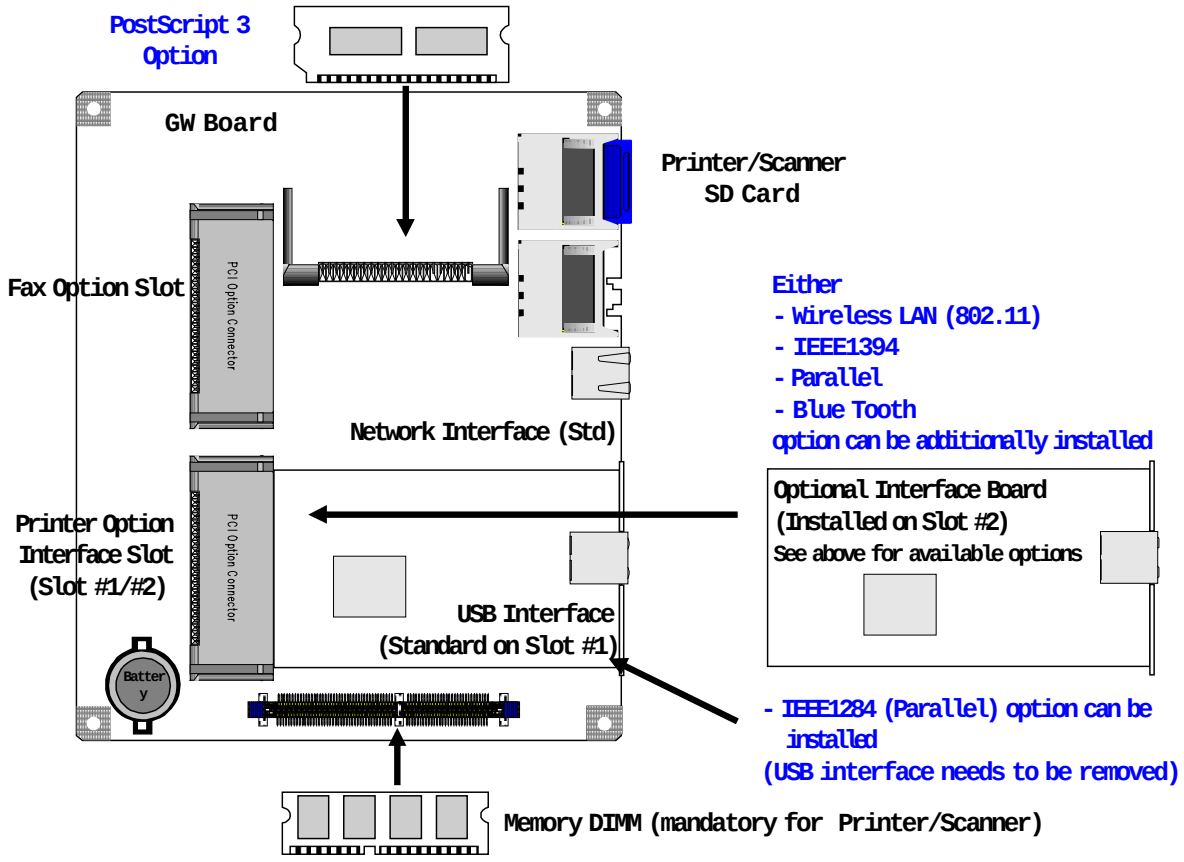
## Configuration of Printer and Scanner related items




## Printer Interface Correlation:

| | Std | Option 1 | Option 2 | Option 3 | Note |
|---|---|---|---|---|---|
| PCI Slot No. 1 | USB 2.0 | IEEE1284 | - | - | Take out the USB2.0 interface to install IEEE1284 to Slot No. 1 |

| | Std | Option 1 | Option 2 | Option 3 | Note |
|---|---|---|---|---|---|
| PCI Slot No. 2 | Open slot | Wireless LAN (IEEE802.11b) | IEEE1394 | Bluetooth | Either Wireless LAN (IEEE802.11b), IEEE1394 or Bluetooth can be installed to Slot No. 2 |



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**USB2.0 Interface (Standard)**
This interface provides easy printing connectivity in customer's environment.

**Note:** USB2.0 can be used only for printing function.

**Hardware Specification**

| | |
|---|---|
| Interface | USB2.0/1.1 |
| Data transfer speed | 480Mbps (high speed)<br>12Mbps (full speed)<br>Only USB 2.0 supports "High speed". |

**System requirement**

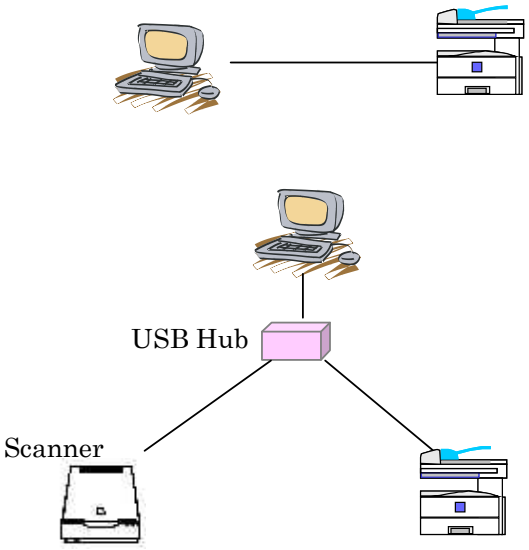
| | |
|---|---|
| Supported OS | USB1.1 => Windows 98SE/ 2000/ Me/ XP,<br>MAC OS 9.x, 10 classic mode<br>USB2.0*=> Windows XP, 2000, Me<br>*Depends on driver support schedule of Microsoft. |

PnP (Plug and Play): When USB cable is connected, OS will automatically recognize the printer and proceed to one of followings.

USB driver is installed: OS automatically set up the printer.

USB driver is not installed: Pop-up menu comes up which recommends to install the driver.

**TYPICAL CONNECTION**



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**Wireless LAN Interface (Option) IEEE802.11b**

With this interface the DSm415 can be connected to wireless network environment The optional interface is installed and enables users to communicate to PCs that have wireless interface cards.

**Note:** Ethernet (100Base-TX/10Base-T) and Wireless LAN cannot be used at the same time. It must be manually selected to use either of them.

| | |
|---|---|
| Data transmission speed | Auto (11Mbps, 5.5Mbps, 2M bps, 1Mbps)<br>Manually selectable to 11Mbps/ 5.5Mbps/ 2Mbps/ 1Mbps fixed |
| Protocol | TCP/IP |
| Frequency | From 2,400 MHz to 2,497MHz |
| Channel | US model … 1-11 ch.<br>EU model … 1-13 ch |
| Type of connections (*1) | Ad hoc mode, Infrastructure mode |
| Distance between devices | 11 Mbps: 140 m, 5.5 Mbps: 200 m, 2 Mbps: 270 m,<br>1 Mbps: 400 m<br>The above is the max distance when using in the open air, and these depend on office environment. |
| WEP (Encryption) Setting (*2) | 64 bit (10 digits) /128 bit (26 digits) |

### (*1) Type of connections

- Ad hoc Mode
- Infrastructure Mode

*Please refer to the following for the details.*

### (*2) WEP: Wired Equivalent Privacy

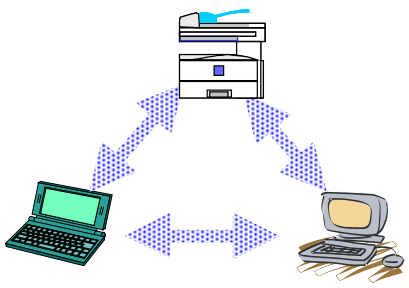
WEP is an encryption method that protects wireless data communication. Both devices that send and receive data through wireless communication need to have the same WEP Key when communicating to the other device.

### Type of connections

(1) Ad hoc mode communicates between each wireless client

*NOTE: Adhoc mode connection does NOT support the communication with Novell NetWare Server because NetWare does not support wireless LAN interface.*

*NOTE: 2 types of Ad hoc mode are selectable, one is "Ad hoc mode" and the other is "802.11b ad hoc mode". The former mode uses only channel setting and the latter uses channel setting and SSID (SSID stands for Service Set ID, and only the devices, which has same SSID can communicate each other through wireless network.*





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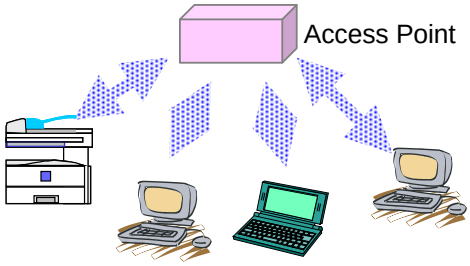
(2) Infrastructure mode communicates through Access Point device




### Supported application through Wireless LAN Interface

The Wireless LAN interface provides same functions as NIB's, and can be used for printing and scanning.

### IEEE 1394 Interface (Option)

Two function (type of connection) are available, "SCSI print" and "IP over 1394".

| | SCSI print | IP over 1394 |
|---|---|---|
| Available function | Print | Print, Scan |
| PC OS | Windows 2000 SP1, XP | Windows Me (*), XP |
| Protocol | SBP-2 | TCP/IP |
| Bi-directional communication | Yes | Yes |

(*) When printing with IP over 1394 from a PC (OS: Windows Me), SmartNetMonitor for Client (version 5.0 or later) is necessary.

### (1) SCSI print

This function enables customer to connect and utilize the Model S-C2 as a printing device (only from the PC installed Windows 2000 and XP).

**Note:** This connection type can be used only for printing function.

### Hardware Specification

| | |
|---|---|
| Interface | IEEE 1394 |
| Number of ports | 2 ports (6 pin) |
| Data Transmission speed | 400Mbps / 200Mbps / 100Mbps |
| Bundled cables | 1 x 6pin-4pin cable<br>1 x 6pin-6pin cable<br>Length of cable; 2.0m (78.74inch). |

### System requirement for SCSI print

| | |
|---|---|
| Supported OS | MS-Windiows2000*, XP<br>*Supported OS<br>- MS-Windows 2000 Professional with Service Pack 1<br>- MS-Windows 2000 Server with Service Pack 1 |
| Number of Hops | 16 hops (Max.) |
| Length of cable | 4.5m between devices (Max.) |



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### (2) IP over 1394

This provides printing and scanning function through IEEE 1394 interface.

#### Hardware Specification

| | |
|---|---|
| Interface | IEEE 1394 |
| Number of ports | 2 ports (6 pin) |
| Data Transmission speed | 400Mbps / 200Mbps / 100Mbps |
| Bundled cables | 1 x 6pin-4pin cable<br>1 x 6pin-6pin cable<br>Length of cable; 2.0m (78.74inch). |

#### System requirement for IP over 1394

| | |
|---|---|
| Supported OS | Windows Me (*), XP |
| Protocol | TCP/IP |
| Number of Hops | 16 hops (Max.) |
| Length of cable | 4.5m between devices (Max.) |

(*) When printing with IP over 1394 from a PC (OS: Windows Me), SmartNetMonitor for Client (version 5.0 or later) is necessary.

#### Bluetooth Interface (Option)

Bluetooth is a short distance radio communication technology

- Aiming substitution of a cable
- Range of around 10m
- Low consumption electricity
- Low price
- 2.4GHz ISM band used. (same electric wave as a microwave oven and 802.11b [Wireless LAN]).
- Frequency Hopping Spread Spectrum (FHSS) system
- Many of protocols used with infrared communication (IrDA) can also be used with Bluetooth.

#### System requirement

| | |
|---|---|
| Supported OS | Win XP, 2000, 98 SE, Me<br>(It will also depend upon the support OS of the Bluetooth Card) |
| Connectable PCs | - Host PC with PCMCIA card slots<br>"3COM Wireless Bluetooth PC Card 3CRWB6096" or "3COM Wireless Bluetooth USB Adaptor 3CREB96" is required.<br>- Toshiba PC with Bluetooth Software Ver1.02.18 or later |

#### Hardware Specifications

| | |
|---|---|
| Transmission spec | Based on Bluetooth V1.1 |
| Data Transfer Speed | 1Mbps |
| Profile | Hardcopy Cable Replacement Profile (HCRP), Serial Port Profile (SPP) |
| Distance between devices | 10 m<br>The above is the max distance when using in the open air, and these depend on office environment. |



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## Scanner Features (General)

| | |
|---|---|
| **Optical resolution** | 600 dpi binary |
| **Scan speed** | Scan to E-mail: 22ipm (200dpi binary/SEF/ MH)<br>ScanRouter V2 Lite: 22ipm (200dpi binary/SEF/ MH)<br>TWAIN: 18ipm (200dpi binary/A4 SEF)<br>Note: without compression |
| **Scan area** | Main scan: 216mm<br>Sub scan: 356mm (ADF), 297mm (using the exposure glass) |
| **Original size (Exposure glass and ADF)** | Default original size:<br>A4 SEF (Europe, Asia/Pacific and China model)<br>8 1/2"x11" SEF (using the exposure glass: US model), 8 1/2"x14" SEF (ADF: US model)<br>Available to specify original size manually.<br>No auto detection |
| **Compression Method** | Binary: MH (Default), MR, MMR |
| **Network Topology** | Ethernet 10/100BaseTX<br>Wireless LAN (IEEE802.11b)<br>IEEE 1394/IP over |
| **Protocol** | TCP/IP |
| **Max numbers of original stored** | 100 sheets (A4/ 200dpi/ MH/ 6% chart) |
| **Web Status Monitor** | Standard |

### Scan to E-mail Specification

| | |
|---|---|
| **Requirement** | SMTP (Mail Server) Gateway and TCP/IP |
| **Authorization function** | SMTP authentication<br>POP 3 authentication<br>POP before SMTP authentication |
| **Global address book access** | No |
| **Register E-mail Address** | Max. 150 |
| **Destination** | Max. 150 from address book<br>Manual input: 50 destinations per job |
| **Group Address** | Max 10 Group (max 100 users in one group) |
| **Maintain E-mail Address** | Operation panel, Web Image Monitor, SmartDeviceMonitor |
| **Attention** | To |
| **Search** | By name, e-mail address, by registration number |
| **Input Subject** | Max 20 Characters via hard key |
| **Body Message** | Fixed message is attached to the e-mail. Message language is selectable by user.<br>The following message is attached:<br>-Greeting: "This E-mail was sent from xxxx (host name, machine model name)"<br>-Scan date:<br>-Queries to: Key operator's E-mail address |
| **Max E-mail data size** | Adjustable for transmission (from 64KB to TBA) *default 2048KB |
| **File Format** | Single Page TIFF, Multi Page TIFF, PDF |
| **Divide and send E-mail** | Yes (By page or size) |
| **Batch Transmission** | Yes (By page or size) |

Note; There is a limitation on the page numbers you can scan and send due to no HDD.



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## ScanRouter and DeskTopBinder

| | |
|---|---|
| **Resolution** | 100, 200, 300, 400, 600 dpi binary |
| **Scan mode** | Text, Text/Photo, Photo, OCR * |
| **Original size** | A4 SEF (Europe, Asia Pacific and China model)<br>8 1/2"x11" SEF (using the exposure glass: US model), 8 1/2"x14" SEF (ADF: US model) |
| **Image density** | Lighter to Darker: 5 degrees |
| **2 sided scan** | No |
| **File format** | TIFF (MH, MR, MMR)<br>Multi-page TIFF<br>PDF |
| **OS** | <Delivery Server for ScanRouter V2 Lite><br>Windows 95(OSR2 or later), 98/98SE<br>Windows ME<br>Windows NT Server4.0 (SP5 or later)<br>Windows2000Server<br>Windows XP<br><Client PC for DeskTopBinder V2 Lite><br>Windows 95(after OSR2), 98/98SE<br>Windows ME<br>Windows NT Workstation 4.0(SP5 or later)<br>Windows NT Server4.0 (SP5 or later)<br>Windows 2000 Professional, Windows 2000 Server<br>Windows XP |
| **Memory** | <Delivery Server for ScanRouter V2 Lite><br>Min 64MB (128MB or more recommended)<br><Client PC for DeskTopBinder V2 Lite><br>Min 48MB (64MB or more recommended) |
| **CPU** | <Delivery Server for ScanRouter V2 Lite><br>Pentium 200MHz minimum<br>(Pentium 350MHz minimum recommended)<br><Client PC for DeskTopBinder V2 Lite><br>Pentium 133MHz or faster (Pentium 266MHz or faster recommended) |
| **HDD** | <Delivery Server for ScanRouter V2 Lite><br>At least 200MB of disk space are required for installation. In addition, 500MB or more are required.<br><Client PC for DeskTopBinder V2 Lite><br>50MB or more (200MB recommended) |
| **Network** | Topology: Ethernet 10/100BaseTX, Wireless LAN (IEEE802.11b), IEEE1394<br>Protocol: TCP/IP |

*OCR for scan mode does not mean OCR scanning. OCR mode creates the data that is best match to OCR scanning.



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## Network Twain Driver

| | |
|---|---|
| **Original size** | Max A4 / 8 1/2”x11” (8 1/2”x14” with ADF) |
| **Resolution** | Scanner: 600dpi<br>Driver: Binary –600dpi |
| **OS** | Win98/ME, WinNT4.0, 2000, Win XP |
| **Memory** | Minimum required memory for OS + 8MB |
| **CPU** | Pentium 75MHz or more, or minimum required CPU for OS |
| **HDD** | More than 100MB of disk space is required. |
| **Network** | Protocol: TCP/IP, UDP/IP, ICMP/IP |
| **Duplex scanning** | No |
| **Skew correction** | Yes |
| **Image Rotation** | Yes |



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## Auto Document Feeder

| | |
|---|---|
| Original size: | A4 - A5, LG - HLT |
| Original weight: | 52 - 105 g/m$^2$, 14 - 28 lbs. |
| Stack capacity: | 30 sheets (80 g/m$^2$, 20 lbs.) |
| Power consumption: | 50w or less |
| Dimensions (W x D x H): | 110 x 360 x 95 mm, 4.3” x 14.2” x 3.74 |
| Weight: | 2kg (4.41lbs) |

### Supply Specification

Toner Cartridge
Average : 7K Copies / Cartridge

**Note:** A4, 6% chart is used to measure the above yield.

### Supplies compatibility

| Item | DSm415 series | 1302/1305/1308/f |
|---|---|---|
| Toner bottle | New | Current |
| PCU | New | Current |

### Contents of CD-ROM

| | |
|---|---|
| CD #1<br>Printer Drivers and Utilities | RPCS printer driver<br>PCL printer driver<br>PostScript printer driver<br>LAN-Fax driver<br>SmartDeviceMonitor for Admin<br>SmartDeviceMonitor for Client<br>FontManger 2000<br>1394 Utility<br>Printer Utility for Mac |
| CD #2<br>Scanner Driver and Document Management Utilities | Twain Driver<br>ScanRouter V2 Lite*<br>DeskTopBinder V2 Lite*<br>Acrobat Reader |
| CD #3<br>Operating Instructions for Printer/Scanner | Network Guide<br>Printer Reference 2<br>Scanner Reference<br>PostScript 3 Supplement |

*DeskTopBinder V2 Lite includes “Setup Guide”, “Introduction Guide” and “ScanRouter V2 Link Guide”.
**ScanRouter V2 Lite includes “Setup Guide” and “Management Guide”.
***Scanner Reference includes “Network TWAIN Scanner Reference”.



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## Environmental Specification

Sound Power Level

| | **Main Unit Only** | **Complete System** |
|---|---|---|
| Copying | 62dB or less | 66dB or less |
| Stand-by | 40dB or less | 40dB or less |

### Ozone Emission Level

0.02 mg/m3 or less

### Dust Level

0.075 mg/m3 or less

### Styrene Emission Level

Less than 0.07 mg/m3

### Identification of Plastic Components

All plastic components which weight more than 25g are identified accordingly as per DIN54840 or ISO11469.

### Power Consumption

| | | Copier only | Fax or Printer/Scanner installed |
|---|---|---|---|
| Low Power Mode | Power Consumption | TBA | TBA |
| Sleep Mode | Power Consumption | - | 10Wh |
| Auto Off Mode | Power Consumption | 1Wh | - |

### Environmental Regulation

| BAM | Energy Star | Swan | Zesm | ASTM |
|---|---|---|---|---|
| Yes | Yes | No | Yes (Note) | Yes |

**Note:** Zesm regulation is for machines that are over 30ppm. However this model meets requirements in accordance with Zesm.



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